FETALGARD Lite™ QUICK GUIDE

PLEASE READ THE USER'S MANUAL PRIOR TO OPERATING THE FETALGARD LITE.

System Navigation

Use the control knob (on the front of the monitor) to set up and navigate through the menu system. Turning the knob while in the main monitoring screen moves a selection frame to each of the menu frames on the display. When the knob is pressed, a menu appears that contains monitor settings that are relevant to the display frame that was selected.

Power On/Standby button - switches monitor between Power On and Standby.

Ultrasound (U/S/Volume/Alarm) button - selects an ultrasound channel in order to adjust its audio volume. The control knob is then used to increase or decrease volume settings. It is also used to silence the audible warning indicator that accompanies a heart rate alarm condition ***(see Section 3.14.9 of User's Manual)***.

TOCO Zero button - resets the TOCO baseline ***(see Section 3.14.4 of User's Manual)***.

Clinician Event Marker button - inserts a nurse event mark on the display and strip chart paper when pressed ***(see Section 8 of User's Manual)***.

Contrast Adjust button - changes the operation of the control knob to adjust the display contrast ***(see Section 3.14.10 of User's Manual)***.

Trend Scroll button - puts the monitor into trend scroll mode. The trend frames show historical patient data and the control knob provides navigation capability ***(see Section 10 of User's Manual)***.

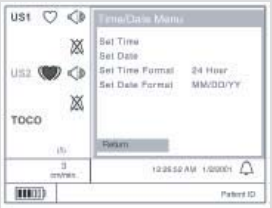
Graticule button - displays a pair of horizontal level lines, 15 BPM apart, on the fetal heart rate (FHR) trend frame. Rotating the control knob moves these lines up or down on the display ***(see Section 9 of User's Manual)***.

Ultrasound Menu

FHR alarms are enabled or disabled by accessing the Alarm Status selection in the Ultrasound Menu. Alarms can alert you in the event that the FHR goes above or below an alarm limit. You establish the limits in the Ultrasound Menu. An alarm event results in an audible tone and blinking of the heart rate value on the display ***(see Section 4 of User's Manual)***. The Ultrasound Menu also allows you to set up a trace seperation when monitoring twins to clearly see separate heart rate trends when both heart rates are similar ***(see Section 3.14.3 of User's Manual)***.

TOCO Menu

This menu allows you to set the TOCO baseline. Use the control knob to highlight the desired baseline value of "5", "10", "15" or "20" and press the knob to make a selection ***(see Section 3.14.4 of the User's Manual)***.

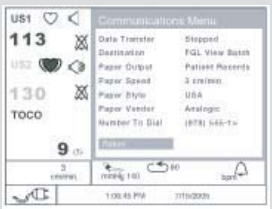


Time/Date Menu

This menu allows you to change the time and date settings of the monitor. Use the control knob to highlight the item you want to change either "Set Time", "Set Time Format", "Set Date" or "Set Date Format" and press the knob to make selection. The options for each parameter in the submenu are: Time {hours, minutes, seconds)}, Date {month, day, year}, Time Format {12 Hour, 24 Hour} and Date Format {MM/DD/YYYY, DD/MM/YYYY} ***(see Section 3.14.5 of User's Manual)***.

Patient ID Menu

When this menu is opened, you can change the patient ID. When the monitor is turned on, either a default patient ID is created by the monitor based upon the present time and date, or you may choose to use the saved Startup ID, if one has previously been saved. When this patient ID is changed, the new patient ID will be incorporated into the stored patient record within the monitor and presented on the display. However, this will not replace the previously stored Patient ID as the power-up default ID. The previously stored default Patient ID CANNOT be changed without entering the password-protected Patient ID menu.



Communications Menu ***(See page 3 of this Quick Guide for more details on using the "Data Transfer" menu item.)***

This menu allows you to set the paper speed, paper vendor, paper style and paper output. Paper output is used to select between real-time (current record) and batch output (patient records) for destinations capable of both types of transfer. For example, a recorder can print data currently being collected by the monitor (real-time) or it can print a patient record, collected previously, at a faster speed (batch output). These past records are selected for transfer using the selection screen, which is displayed after starting the data transfer to a properly connected output device using the "Data Transfer" menu item.

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Monitoring Fetal Heart Rate

Transducer Application

1. Determine the location of the fetal heart using a Doppler system.

2. Apply gel to the face of the ultrasound transducer then secure the transducer with the belt to the maternal abdomen.

3. Press the "Power On" button to turn on the monitor. Plug in the printer and press the "Power On" button on the back of the printer if "real time" printing is desired.

TOCO Application

1. Check the Tocotonometer (TOCO) transducer to verify proper attachment to the monitor. Also, check the proper setting for TOCO baseline by turning the control knob to move to the "TOCO" frame and press the knob to open the TOCO menu. Turn the knob to highlight TOCO baseline and turn the knob to select a baseline value and press the knob to make a selection. When finished, turn the knob to highlight "Return" and press the knob to return to the main monitoring screen ***(see Section 3.14.4 of User's Manual)***.

2. Next, place the face (button side) of the TOCO on the fundus of the uterus when contractions are not occurring.

NOTE: No gel is required.

3. Secure the TOCO with the belt on the maternal abdomen. The uterine activity on the display should be reading greater than 30 units and less than 90 units. (If the readings fall outside of this range, the belt may be too tight or too loose.) Readjust the belt pressure as needed.

4. Press the TOCO Zero button to adjust the values to the baseline. If the uterine activity exceeds 100 units for more than 15 seconds, the units displayed in the TOCO numerical frame will flash off and on every second.

NOTE: Adjusting the values to the TOCO baseline must be done during non-contraction intervals.

Patient ID Setting

1. Now that the transducer and TOCO are applied to the maternal abdomen, turn the control knob to highlight the "Patient ID" Menu. Turn the knob to highlight "Patient ID" and press the knob to select it. A "Set Patient ID" box will appear. Turn the knob to highlight a character to edit the ID or highlight "Clear", "OK" or "Cancel". Press the knob to make a selection. If the knob is pressed when a character in the "Patient ID" is highlighted, this character is selected for editing ***(see Section 3.14.6 of User's Manual).***

2. Turn the knob to select new values for this character. The characters available are 0-9, A-Z and space. Press the knob to select the displayed value. Repeat the previous steps for each character you wish to change. Turn the knob to "OK" to save your changes or "Cancel" and then press the knob to make a selection.

3. When finished creating an ID, turn the knob to highlight "Return". Press the knob to return to the main monitoring screen.

FHR Monitoring

NOTE: If only a single fetus is being monitored, there is no need to be concerned with the trace separation feature because the system is set up for single FHR monitoring. (Skip # 1 and # 3 below.)

1. If you ARE monitoring twins, change the heart rate separation settings. Turn the knob the highlight the "U/S Trace Separation" (ultrasound) frame and press the knob to open the "Ultrasound Menu". Turn the knob to select a parameter and press the knob to select and change this parameter. Turn the knob to select a desired value and press the knob to make the selection. When finished making changes in this frame, turn the knob to highlight "Return" and press the knob to return to the main monitoring screen ***(see Section 3.14.3 of User's Manual)***.

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NOTE: A pulsation heart rate icon, located in the ultrasound heart rate frame of the display, along with the numeric rate indicates a signal has been obtained.

2. If needed, reposition the transducer to obtain the loudest fetal heart signal and verify the indicator LED on the transducer is blinking at the fetal heart rate. Observe the heart rate indication on the screen for about 30 seconds.

3. If acquiring twin-fetal heart rates, place the second ultrasound transducer on the maternal abdomen and verify that the monitor is displaying fetal heart rate values for both fetuses ***(see Section 3.11 of User's Manual)*** and that the heart rate indicators on both ultrasound transducers are blinking at the measured heart rate.

4. Readjust the volume settings for the desired loudness ***(see Section 3.14.9 of User's Manual)*** and continue with the exam.

Printing Stored Files

1. After completing the exam, you can print stored patient files, which occurs at a faster rate than printing "real time" data and is referred to as "batch printing".

2. Turn the knob to highlight the "Communications Menu" and press knob to open it. Turn the knob to highlight "Destination" and press the knob to select.

NOTE: "Data Transfer" must be "Stopped" in order to select a destination.

3. Turn the knob to highlight "Recorder" and press the knob to select. Next, turn the knob to highlight "Paper Output" and press the knob. Turn the knob to highlight "Patient Records" and press the knob to select.

NOTE: Selecting "Current Record" would, after starting data transfer, instruct the recorder to print only data currently arriving at the monitor (real-time) from the sensors.

4. Next, turn the knob to highlight "Data Transfer" and press the knob to display the "Start Data Transfer" window. Turn the knob to highlight "Yes" and press the knob to begin the data transfer.

5. After detecting the recorder, the record Selection window will appear. Turn the knob to select "Yes", "No", "Cancel", "All Remaining" or "None Remaining".

NOTE: Selecting "Yes" will queue the patient file shown for printing and display file details of the next patient.
- ***Selecting "No" will skip over this file and display details of the Next patient file.***
- ***Selecting "All Remaining" causes all the rest of the stored patient files to be queued for printout.***
- ***Selecting "None Remaining" skips over all the rest of the stored patient files.***
- ***Selecting "Cancel" closes the dialog box and returns to the Communications menu.***

6. Repeat the selection process until all desired patient files have been chosen for printing. After concluding selection, the data transfer begins. Printing of the patient files will occur at approximately 30cm per minute until all selected files have been printed.

Downloading Files via FETALGARD Lite View & Receiver

1. The FETALGARD Lite View is an application program that runs on a personal computer (PC) used for viewing, annotating, and storing patient files originating from the FETALGARD Lite. Patient data files are transferred to the PC using a serial port hook-up between the monitor and the PC. The program uses a Windows-like user interface with pull-down menus and mouse operation.

2. The FETALGARD Lite Receiver is Windows-based program to transfer data from the FETALGARD Lite to a database on a PC or from a PC database to the FETALGARD Lite recorder. Its communication method is designed to use a direct serial port connection.

3. For more instructions for installing and starting the FETALGARD Lite View & Receiver, see Sections 13 & 14 of the User's Manual or refer to the supporting document entitled "Quick Tips for the FETALGARD Lite View & Receiver Software".

SUMMIT DOPPLER SYSTEMS, INC.
www.summitdoppler.com

4680 Table Mountain Dr. # 150
Golden, Colorado 80403
800-554-5090 or Fax 303-940-7165